

Notice of Allowability

Application No.

09/818,352

Examiner

John L. Shew

Applicant(s)

ENOKI ET AL.

Art Unit

2664

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application of 03/27/01.
2. ☒ The allowed claim(s) is/are 1-7.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 03272001
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 09272004.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian Myers (Reg. Number 46947) on 09/27/2004.

The abstract has been amended as follows:

Line 7, "LSP based on" has been replaced by "LSP. Based on".

Line 10, "message when the" has been replaced by "message. When the".

Line 13, "direction based on" has been replaced by "direction. Based on".

Line 16, "prescribed based on" has been replaced by "prescribed. Based on".

Line 17, "processor and notifies" has been replaced by "processor, explicit route preparing portion notifies".

The specification has been amended as follows:

Page 14 line 6, "massage sequence" has been replaced by "message sequence".

Page 14 line 27, "massage sequence" has been replaced by "message sequence".

Page 19 line 24, "mapping massage" has been replaced by "mapping message".

Allowable Subject Matter

2. Claims 1-7 are allowed.

The following is an examiner's statement of reasons for allowance:

Claim 1 pertains to the use of a label switching router, particularly associated to a Label Switched Path using Constraint-based Routing Label Distribution Protocol. These terms are associated to Label Switch Routers using Multi Protocol Label Switching standards. The standard MPLS defines transmission of packets only unidirectionally. The prior art search did not disclose the use of MPLS bi-directional LSP setup using a single Type/Length/Value message. The search disclosed the establishment of bi-directional LSP through the use of a separate network using Session Initiated Protocol or a two stage unidirectional MPLS LSP's which results in a bi-directional LSP.

Citation of Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Patent 6680943, Gibson et al. discloses a method of establishing a bi-directional communications session over a MPLS network using a modified SIP messaging protocol.

Publication 2001/0019554 A1, Nomura et al. discloses a label switch network system.

Publication 2002/0156914 A1, Lo et al. discloses a MPLS controller for managing bandwidth over a network.

Publication 2003/0065815 A1, Klink discloses a switching method for transmission devices in MPLS networks.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John L Shew whose telephone number is 571-272-3137. The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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A handwritten signature in black ink, appearing to read 'John L. Shew', with a long horizontal line extending to the right.